

AMENDMENTS TO THE SPECIFICATION

Please amend the paragraph that begins on page 8, line 11 to read as follows:

In use, light is launched by the pigtailed laser diode 10 into arm 12 of coupler 14 and then branches into arms 16 and 18 of the coupler 14 so as to ~~receive~~ be received by the couplers 22 and 25. The light from the coupler 22 passes through arm 26, connector 30, fibre lead 35 and into fibre 42. The light from the light source 10 therefore follows arrow A shown in Figure 1 along the length of the fibre 42 to arm 71 of coupler 70 and then from coupler 70 into arms 72 and 74 and then into fibres 44 and 62. The light travelling in the direction of arrow A therefore follows two different paths through the fibres 44 and 62 and is then recombined by coupler 52 into output arm 50. The light then propagates through[[,]] fibre lead 37, connector 32, fibre 33, arm 28, coupler 25 and arm 29 to detector 80. When the light recombines at coupler 52 the light travelling through fibres 44 and 62 interferes so as to produce an interference pattern which is detected by the detector 80.